

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-9 (canceled).

Claim 10 (currently amended) A synchronous induction motor comprising:

- a stator equipped with a stator winding;
- a rotor which is secured to a rotating shaft and which rotates in the stator;
- a secondary conductor provided around the rotor yoke constituting the rotor; and
- permanent magnets embedded in the rotor yoke, each said permanent magnet having a linear shape and provided symmetrically about a line that connects two magnetic poles, wherein the permanent magnets have lengths which are radially disposed, and wherein the permanent magnets are substantially adjacent to the rotating shaft,

wherein a magnetic field produced by the permanent magnets does not pass through the rotating shaft.

Claim 11 (previously presented) A synchronous induction motor comprising:

- a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;
a secondary conductor provided around the rotor yoke constituting the rotor; and
permanent magnets embedded in the rotor yoke, each said magnet having a linear shape
and provided symmetrically about a line that connects two magnetic poles, wherein the
permanent magnets have lengths which are radially disposed, and wherein the permanent
magnets are substantially adjacent to the rotating shaft,
wherein a magnetic field produced by the permanent magnets bypasses the rotating shaft.

Claim 12 (previously presented) A synchronous induction motor comprising:
a stator equipped with a stator winding;
a rotor which is secured to a rotating shaft and which rotates in the stator;
a secondary conductor provided around the rotor yoke constituting the rotor; and
permanent magnets embedded in the rotor yoke, each said magnet having a linear shape
provided symmetrically about a line that connects two magnetic poles, wherein the permanent
magnets have lengths which are radially disposed, and wherein the permanent magnets are
substantially adjacent to the rotating shaft,
wherein a magnetic field produced by the permanent magnets passes through only the
rotor yoke, excluding the rotating shaft.

Claims 13-15 (canceled).

Claim 16 (previously presented) A synchronous induction motor comprising:

- a stator equipped with a stator winding;
- a rotor which is secured to a rotating shaft and which rotates in the stator;
- a secondary conductor provided around the rotor yoke constituting the rotor; and
- permanent magnets embedded in the rotor yoke, each said magnet having an arcuate shape curving around the rotating shaft and provided symmetrically about a line that connects two magnetic poles,

wherein the permanent magnets are substantially adjacent to the rotating shaft, and

wherein a magnetic field produced by the permanent magnets does not pass through the rotating shaft.

Claim 17 (previously presented) A synchronous induction motor comprising:

- a stator equipped with a stator winding;
- a rotor which is secured to a rotating shaft and which rotates in the stator;
- a secondary conductor provided around the rotor yoke constituting the rotor; and
- permanent magnets each having an arcuate shape curving around the rotating shaft and provided symmetrically about a line that connects two magnetic poles,

wherein the permanent magnets are substantially adjacent to the rotating shaft, and

wherein a magnetic field produced by the permanent magnets bypasses the rotating shaft.

Claim 18 (previously presented) A synchronous induction motor comprising:

- a stator equipped with a stator winding;
- a rotor which is secured to a rotating shaft and which rotates in the stator;
- a secondary conductor provided around the rotor yoke constituting the rotor; and
- permanent magnets embedded in the rotor yoke, each said magnet having an arcuate shape curving around the rotating shaft provided symmetrically about a line that connects two magnetic poles,

wherein the permanent magnets are substantially adjacent to the rotating shaft, and

wherein a magnetic field produced by the permanent magnets passes through only the rotor yoke, excluding the rotating shaft.